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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re A	application of:	Ş	Group Art Unit: 2681
	Huston et al.	§	Examiner: Unknown
Serial	No. 10/772,071	. §	Atty. Dkt. No. 5683-00203
Filed:	February 4, 2004	8 8 8	I hereby certify that this correspondence is being transmitt via facsimile or deposited with the U.S. Postal Service as Fil
For:	METHOD AND APPARATUS FOR MESSAGE DISPLAY ON A GOLF COURSE	5 G G	Chas Mail in an envelope addressed to: Commissioner for Paten P.O. Box 1450, Alexandria, VA 22313, on the date indicate below:
		8	8-2-04 Banela Beik Parrela Gerik

INFORMATION DISCLOSURE STATEMENT

Applicant requests consideration of the references listed on the attached Form PTO-1449

and/or [] the additional information identified below in paragraph 3. Pursuant to 37 CFR §§ 1.98(d)(1)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313

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Sir:

and	(2), copi	es of the	cited references are not provided since they were previously cited and provided in
prio.	r applica	tion SN (08/926,293 to which the present application claims priority under 35 USC § 120.
1.	This	Informa	ion Disclosure Statement is submitted:
	a.		within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
			within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
			before the mailing date of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
	b.		after the events of above paragraph la and prior to the mailing date of a final Office Action or Notice of Allowance, and thus:

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paragraph 2 below is provided, or a fee of \$180.00 is enclosed.

after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is

provided and a fee of \$180.00 is enclosed.

2.	It is he	reby certified:
		that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
		that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.
3.		Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:
.4.	For each	ch non-English language reference listed on the attached Form PTO-1449:
		reference is made to an English language translation submitted herewith, and/or
		reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
		reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
		reference is made to the concisc explanation contained in the specification of the present application at page(s) and/or
		reference is made to the concise explanation set forth below:
5.		Applicant also offers the following comments for the Examiner's consideration:
6.		Also enclosed is a copy of a foreign search report citing these references.
7.		The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.
8.		Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Conley Rose, P.C. Deposit Account No. 03-2769/5863-00203.

Respectfully submitted,

Charles D. Huston Rcg. No. 31,027

Attorney for Applicant(s)

CONLEY ROSE, P.C. P. O. Box 684908 Austin, Texas 78768-4908 (512) 476-1400

Date: 2 Ang 04

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified) #1

DATE CONSIDERED:

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	AE	4	7	8	3	0	7	1	08/10/88	Tattersh	ıall	273	32H			
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Form PTO-1449 (modified)		Atty. Docket No. 5863-00203	Serial No. 10/772,071		
List of Patents and Publications fo		Applicants; Charles D. Huston and Darryl J. Cornish			
(Use several sheets if neces	sary)	Filing Date: 2/4/2004	Group: 2681		
U.S. Patent Documents See Pages 1-3	1	Patent Documents See Page 3	Other Art See Pages 3-8		

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A1	3,126,545	3/24/64	Smith	343	103	11/23/60
	A2	3,150,372	9/22/64	Groth, Jr.	343	112	6/23/59
	A3	3,182,314	5/4/65	Kleist et al.	343	6.5	6/4/62
	A4	3,375,520	3/26/68	De Groot et al.	343	103	5/7/65
	A 5	3,771,483	11/13/73	Bond	114	39	10/29/71
	A6	3,868,692	2/25/75	Woodard et al.	343	112	9/13/73
	A7	4,027,840	6רודו	Blair	246	122	9/30/75
	A8	4,086,630	4/25/78	Speiser et al.	364	410	1/19/76
	A9	4,136,394	1/23/79	Jones et al.	364	561	9/23/77
	A10	4,297,710	10/27/81	Dupressoir	343	756	3/4/80
	A11	4,303,243	12/1/81	Wolfe	273	176	6/17/30
	A12	4,359,733	11/16/82	O'Neill	343	6.5	9/23/80
	A13	4,419,655	12/6/83	May	340	323	7/30/80
	A14	4,480,310	10/30/84	Alvarez	364	450	7/9/82
	A15	4,489,314	12/18/84	Miller	340	568	9/23/82
	A16	4,656,463	4/7/87	Anders et al.	340	572	4/21/83
	A17	4,656,476	4/7/87	Tavtigian	340	993	8/26/85
	A18	4,698,781	10/6/87	Cockerell, Jr.	364	561	4/9/86
	A19	4,703,444	10/27/87	Storms, Jr. et al.	364	561	4/3/86
	A20	4,754,465	6/28/88	Trimble	375	1	5/7/84
	A21	4,783,744	11/8/88	Yuch	364	454	12/8/86
	A22	4,785,463	11/15/88	Janc et al.	375	ı	9/3/85

Examiner:	Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement -- PTO-1449 (Modified)

Form PTO-1449 (modified)		Atty. Docket No. 5863-00203	Serial No. 10/772,071		
List of Patents and Publications fo	r Applicant's	Applicants:			
		Charles D. Huston and Darryl J. Comish			
INFORMATION DISCLOSURE S	TATEMENT				
(Use several sheets if noces	sary)	Filing Date: 2/4/2004	Group: 2681		
U.S. Patent Documents	Foreign f	Patent Documents	Other Art		
See Pages 1-3	s	ee Page 3	See Pages 3-8		

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A23	4,819,174	4/4/89	Furuno et al.	364	444	1/29/87
	A24	4,823,086	4/18/89	Whitmire et al.	324	434	7/1/88
	A25	4,847,862	7/11/89	Braisted et al.	375	i	4/7/88
	A26	4,857,886	8/15/89	Crews	340	323	2/26/88
	A27	4,863,123	9/5/89	Bernard et al.	246	122	9/1/87
	A28	4,896,580	1/30/90	Rudnicki	89	1.815	12/21/88
	A29	4,906,825	3/6/90	Wu	235	95	12/9/88
	A30	4,910,677	3/20/90	Remedio et al.	364	410	5/18/88
	A31	4,926,161	5/15/90	Cupp	340	572	10/23/89
	A32	4,970,523	11/13/90	Braisted et al.	342	418	3/27/89
	A33	5,025,261	6/18/91	Ohta et al.	342	357	1/16/90
	A34	5,039,091	8/13/91	Johnson	272	131	10/19/90
	A35	5,086,390	2/4/92	Matthews	364	410	1/16/90
	A36	5,095,430	3/10/92	Bonito et al.	364	410	4/17/90
	A37	5,097,416	3/17/92	Matthews	364	410	1/16/90
	A38	5,108,334	4/28/92	Eschenbach et al.	455	314	6/1/89
	A39	5,127,044	6/30/92	Bonito et al.	379	88	2/20/90
	A40	5,129,605	7/14/92	Burns et al.	246	. 5	9/17/90
	Λ41	5,148,002	9/15/92	Kuo et al.	219	211	3/14/91
	A42	5,163,004	11/10/92	Rentz	364	460	1/11/91
	A43	5,214,679	5/25/93	Metcalf	377	5	6/13/91
	A44	5,223,844	6/29/93	Mansoll et al.	342	357	4/17/92
	A45	5,245,537	9/14/93	Barber	364	410	11/25/91

Examiner: Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement -- PTO-1449 (Modified)

Form PTO-1449 (modified)		Atty. Docket No. Serial No. 5863-00203 10/772,071				
List of Patents and Publications for	r Applicant's	Applicants:				
		Charles D. Huston and Darryl J. Cornish				
INFORMATION DISCLOSURE S	STATEMENT					
(Use several sheets if neces	sary)	Filing Date: 2/4/2004	Group: 2681			
U.S. Patent Documents	Foreign F	Patent Documents	Other Art			
See Pages 1-3	s	ee Page 3	See Pages 3-8			

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Exam. Init.	Ref. Des.	Dacument Number	Date	Name	Class	Sub Class	Filing Date If App.
	A46	5,270,936	12/14/93	Fukushima et al.	364	444	9/23/92
	A47	5,305,201	4/19/94	Matthews .	364	410	1/24/92
	A48	5,345,244	9/6/94	Gilden et al.	342	357	1/12/93
	A49	5,355,140	10/11/94	Slavin et al.	342	386	9/15/92
	A50	5,364,093	11/15/94	Huston et al.	273	32	12/10/91
	A51	5,379,045	1/3/95	Gilbert et al.	342	357	9/1/93
	A52	5,434,789	7/18/95	Fraker et al.	364	460	10/6/93
	A53	5,491,486	2/13/96	Welles, II et al.	342	357	4/25/94
	A54	5,510,797	4/23/96	Abraham et al.	342	352	4/15/93
	A55	5,512,902	4/30/96	Guthrie et al.	342	357	4/18/94
	A56	5,519,403	5/21/96	Bickley et al.	342	352	11/29/93
	A57	5,524,081	6/4/96	Paul	364	460	5/2/94
	A58	5,550,551	8/27/96	Alesio	342	457	7/25/94
	A59	5,552,772	9/3/96	Janky et al.	340	573	12/20/93
	A60	5,568,119	10/22/96	Schipper et al.	340	825.370	12/21/93
	A61	5,568,152	10/22/96	Janky et al.	342	357	2/4/94

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Exam, Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	Bl	JP 2-189414	25 Jul 90	Japan	5		No
	B 2	IP 3-78678	3 Apr 91	Japan	5		No
	B3	Љ 3-92714	17 Apr 91	Japan	5		No

Examiner: Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Oraw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement --- PTO-1449 (Modified)

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									
Examin				_	Date Cons				
	C4	Yiu, et al., "A Le Navigation; (Vo	ow-Cost GPS I l. 29, No. 3, Fa	Rec	eiver for Land No 1982), pp. 204-22	avigati O	on," Joi	ımai of T	The Institute of
	C3	Beser et al., "The Application of NAVSTAR Differential GPS in the Civilian Community," Journal of The Institute of Navigation; (Vol. 29, No. 2, Summer 1982), pp. 107-136							. 107-136
	C2	Trimble Navigation, brochure: Information (1989) 26 pp.							
		Satellite Navigat	tion at The Cro	SST	oads," (1986) 5 p	р.			
	C1	Magnavox Adva	nced Products	an	d Systems Compa	ny, br	ochure:	"After (Challenger: Marine
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C	other A	Art (Includir	ng Autho	r,	Title, Date	Per	tine	nt Pag	ges, Etc.)
	B13	WO 96/35197	07 Nov 96	PO	er .	6			Yes
	B12	WO 96/21161	11 Jul 96	P	CT	6			Yes
	B11	WO 95/21386	10 Aug 95		cr 	6			Yes
	B10	WO 87/06713	5 Nov 87		CT	4			Yes
-	B9	198 A	22 Jan 92	G					Yes
	B8	JP 5-46079 UK 2 246	26 Feb 93	-	pan	5			No
	B7	JP 5-19035	26 Jan 93	├	pan	5			No No
•	B6	JP 4-335178	24 Nov 92	├	bau	5			No
	B5	ЛР 4-20360	23 Jan 92	┝	pan	5			No
	B4	JP 3-134715	07 Jun 91	Ja	pan	5			Yes
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Information Disclosure Statement — PTO-1449 (Modified)

Form PTO-1449 (modified)		Atty. Docket No. Serial No. 5863-00203 10/772,071		
List of Patents and Publications fo INFORMATION DISCLOSURE 5	•	Applicants: Charles D. Huston and Darryl J. Comish		
(Use several sheets if necessary)		Filing Date: 2/4/2004	Group: 2681	
U.S. Patent Documents See Pages 1-3			Other Art See Pages 3-8	

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation					
	Ç 5	Vanicek et al., Department of Surveying Engineering, Univ. of New Brunswick, Canada, "The Future of Geodetic Networks," (1983) pp. 372-379					
	C 6	Parkinson et al., "NAVSTAR: Global Positioning System Ten Years Later," IEEE, Vol. 71 No. 10 (October 1983), pp. 1177-1186					
-	C 7	Stansell, "Civil GPS From a Future Perspective," IEEE, Vol. 71, No. 10 (October 1983), pp. 1187-1192					
	C8	Pietraszewski, "A Short and Long Term Comparison of LORAN-C and Civil NAVSTAR GPS Signal Stabilities," (1984) 17 pages					
	C9	Braisted, et al., "Combining LORAN and GPS The Best of Both Worlds," Journal of The Institute of Navigation, (Vol. 33, No. 1, Spring 1986) pp. 20-25					
	C10	Dork, "Satellite Navigation Systems for Land Vehicles," (November 1986) pp. 414-418					
	Cii	Aggarwal, Magnavox Advanced Products and Systems Company, "Integration of Differential GPS with INS for Precise Position, Attitude and Azimuth Determination," (September 1987) 10 pages					
	C12	Klass, "Industry Devising GPS Receivers With Hybrid Navigation Aids," Aviation Week & Space Technology (December 14, 1987) pp. 121-122					
	C13	Canadian GPS Associates, "Land Applications In Transportation and Communication," (January 1988) 2 pages					
	C14	Ashjaee, "Differential GPS With Ashtech XII," IEEE (1988) pp. 318-322					
	C15	Green, "The GPS 21 Primary Satellite Constellation," (1988) 7 pages					
	C16	Beck, et al., "Proceedings of the First Global Positioning System," (January 1988) pp. 1-38					
	C17	Vanicek, "Hlking and Biking with GPS: The Canadian Perspective," (April 1988) pp. 225-229					
	C18	Greening, "GPS Surveys and Boston's Central Artery/Third Harbor Tunnel Project," (May 1988) pp. 165-171					
	C19	Gerlach et al., "Evaluation of GPS Instruments For Resource Management Applications," (September 1988) pp. 503-507					

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Information Disclosure Statement — PTO-1449 (Modified)

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9/n Atty. Docket No. Form PTO-1449 (modified) Serial No. 5863-00203 10/772,071 List of Patents and Publications for Applicant's Applicants: Charles D. Huston and Darryl J. Comish INFORMATION DISCLOSURE STATEMENT Filing Date: Group: (Use several sheets if necessary) 2/4/2004 2681 U.S. Patent Documents Foreign Patent Documents Other Art See Page 3 See Pages 1-3 See Pages 3-8 C20 Hunter et al., "Land Navigation and Fleet Management With GPS, LORAN and Dead Reckoning Sensors," (November 1988) pp. 54-60 C21 Curry et al., "Developing a Low-Cost GPS Receiver for Marine Applications," (November 1988) pp. 492-498 C22 Hunter, et al., "Vehicle Navigation Using Differential GPS," (November 1988) pp. 139-143 C23 Palmer, "Precise Navigation, Guidance an Control Services within the Agricultural Community," The Journal of Navigation Vol. 42, No. 1 (January 1989) C24 Hum, "GPS A Guide To The Next Utility," Trimble Navigation (1989) C25 Brusnighan, et al., "Orientation Aid Implementing the Global Positioning System," (March 1989) pp. 33-34 C26 Magnavox Advanced Products & Systems Company, "Points & Positions," Vol. VI, No. 1 (Spring 1989) **C27** Trimble Navigation, brochure: "NavGraphic II, GPS/LORAN Receiver," (May 1989) 6 pages C28 Green et al., "Space Applications of GPS," (January 1989) Journal of the Institute of Navigation Vol. 36, No. 3 (Fall 1989) pp. 239-251 C29 Lachapelle, "A Comparative Analysis of LORAN-C and GPS for Land Vehicle Navigation in Canada," (September 1989) 3 pages Harris et al., "AVLN 2000™ Automatic Vehicle Location and Navigation System," (1989) pp. C30 126-130 C31 Banks, "DATATRAK Automatic Vehicle Location and Position Reporting System," (1989) pp. 214-218 C32 Bell, "Vehicular C¹N - A Global Satellite Solution," pp. (1989) 403-408 Foster, "Vehicle Location for Route Guidance," (1989) pp. 11-16 **C33** C34 Saldin, et al., "Magnavox Automatic Vehicle Location Pilot System for the Toronto Department of Ambulance Services," (1989) pp. 194-201 C35 Palmer, "Test Results of a Precise, Short Range, RF Navigational/Positional System," (1989) pp. 151-155 Parviainen, et al., "Future Mobile Information Systems: Potential applications and Systems C36 Features," (1989) pp. A-36 - A-42

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C5	Transcript of Deposition Upon Oral Examination of Howard Israel and Exhibits 1-2 (June 24, 1997)			
000	C59 Transcript of Telephonic Deposition of Lawrence Molnar and Exhibits 1-2 (fuly 1, 1997)			

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